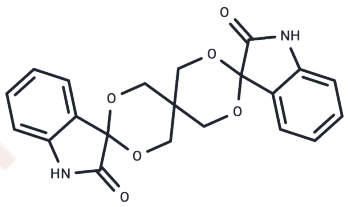
Data Sheet (Cat.No.T22884)

JW 67

Chemical Properties



CAS No. : 442644-28-2

Formula: C21H18N2O6

Molecular Weight: 394.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	JW 67 is an inhibitor of canonical Wnt pathway signaling. JW 67 rapidly reduced active β-catenin with a subsequent downregulation of Wnt target genes, including AXIN2, SP5, and NKD1.
Targets(IC50)	Wnt/beta-catenin
In vitro	JW 67 inhibits the canonical?Wnt?signaling with an?IC50?of 1.17μM[1]. JW 67 (1 μM) increased concentration of AXIN2 and decreased the active form of β-catenin[1]. JW 67 (10 or 25μM) reduced growth of SW480 CRC cells in vitro by inhibiting cell-cycle progression at the G1/S[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (152.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.5 mg/mL (6.34 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5356 mL	12.6781 mL	25.3563 mL
5 mM	0.5071 mL	2.5356 mL	5.0713 mL
10 mM	0.2536 mL	1.2678 mL	2.5356 mL
50 mM	0.0507 mL	0.2536 mL	0.5071 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Waaler J, et al. Novel synthetic antagonists of canonical Wnt signaling inhibit colorectal cancer cell growth. Cancer Res. 2011;71(1):197-205.

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